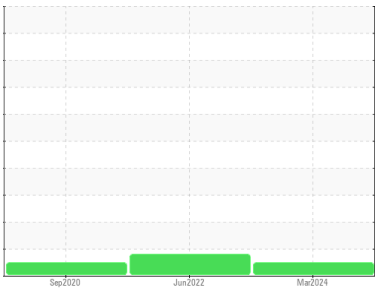
# FUEL REPORT

Sample Rating Trend




NORMAL

Machine Id
**GD12153**
Component
**Diesel Fuel**
Fluid
**No.2 DIESEL FUEL (LOW-SULPHUR) (--- LTR)**

## DIAGNOSIS

**Recommendation**
Les tests de laboratoire indiquent que ce carburant peut être utilisé et qu`il répond à toutes les exigences. Échantillonner de nouveau l`équipement au prochain intervalle de vidange afin d`en surveiller la condition.

**Contaminants**
La propreté du système est acceptable pour votre objectif de propreté ISO 4406. La teneur en eau est négligeable. Il n`y a aucun indice de contamination dans le carburant diesel.

**Fuel Condition**
Tous les tests en laboratoire indiquent que cet échantillon répond aux spécifications du diesel n° 2 à basse teneur en soufre (US EPA/CGSB-3.7-3 type B).

| SAMPLE INFORMATION | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| Sample Number | | Client Info | | **WA0020624** | GD0005722 | GD0004536 |
| Sample Date | | Client Info | | **25 Mar 2024** | 27 Jun 2022 | 23 Sep 2020 |
| Machine Age | hrs | Client Info | | **0** | 0 | 1743 |
| Sample Status | | | | **NORMAL** | ABNORMAL | NORMAL |

| PHYSICAL PROPERTIES | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| Specific Gravity | | ASTM D1298* | 0.839 | **0.820** | 0.823 | 0.824 |
| Fuel Color | text | Visual Screen* | Yllow | **Pink** | Pink | Pink |
| Visc @ 40°C | cSt | ASTM D7279(m) | 3.0 | **1.9** | 2 | 2.1 |
| Pensky-Martens Flash Point | °C | ASTM D7215* | 52 | **50** | 50.4 | 56 |

| SULFUR CONTENT | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| Sulfur | ppm | ASTM D5185(m) | 250 | **32** | 35 | 137 |

| DISTILLATION | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| Initial Boiling Point | °C | ASTM D2887* | 165 | **155** | 155 | 159 |
| 5% Distillation Point | °C | ASTM D2887* | | **172** | 172 | 178 |
| 10% Distill Point | °C | ASTM D2887* | 201 | **179** | 182 | 188 |
| 15% Distillation Point | °C | ASTM D2887* | | **186** | 188 | 195 |
| 20% Distill Point | °C | ASTM D2887* | 216 | **193** | 196 | 203 |
| 30% Distill Point | °C | ASTM D2887* | 230 | **205** | 211 | 217 |
| 40% Distill Point | °C | ASTM D2887* | 243 | **219** | 225 | 231 |
| 50% Distill Point | °C | ASTM D2887* | 255 | **232** | 240 | 245 |
| 60% Distill Point | °C | ASTM D2887* | 267 | **246** | 256 | 260 |
| 70% Distill Point | °C | ASTM D2887* | 280 | **261** | 270 | 274 |
| 80% Distill Point | °C | ASTM D2887* | 295 | **279** | 288 | 291 |
| 85% Distillation Point | °C | ASTM D2887* | | **292** | 300 | 302 |
| 90% Distill Point | °C | ASTM D2887* | 310 | **304** | 314 | 314 |
| 95% Distillation Point | °C | ASTM D2887* | | **326** | 335 | 335 |
| Final Boiling Point | °C | ASTM D2887* | 341 | **347** | 355 | 359 |

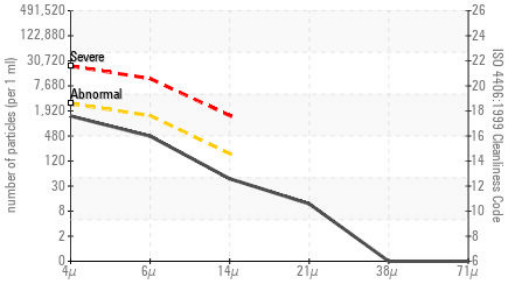
| IGNITION QUALITY | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| API Gravity | | ASTM D1298* | 37.7 | **41** | 40 | 40 |
| Cetane Index | | ASTM D4737* | <40.0 | **48** | 49 | 50 |

| CONTAMINANTS | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| Silicon | ppm | ASTM D5185(m) | <1.0 | **0** | 0 | 0 |
| Sodium | ppm | ASTM D5185(m) | <0.1 | **<1** | 0 | <1 |
| Potassium | ppm | ASTM D5185(m) | <0.1 | **0** | 3 | 0 |
| Water | % | ASTM D6304* | <0.05 | **0.002** | 0.003 | 0.003 |
| ppm Water | ppm | ASTM D6304* | <500 | **22** | 28.3 | 30.5 |

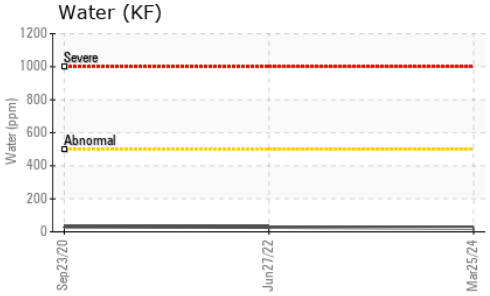
| FLUID CLEANLINESS | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| Particles >4µm | | ASTM D7647 | >2500 | **1268** | 2226 | 1698 |
| Particles >6µm | | ASTM D7647 | >1300 | **417** | 628 | 509 |
| Particles >14µm | | ASTM D7647 | >160 | **40** | 68 | 36 |
| Particles >21µm | | ASTM D7647 | >40 | **10** | 20 | 15 |
| Particles >38µm | | ASTM D7647 | >10 | **0** | 1 | 2 |
| Particles >71µm | | ASTM D7647 | >3 | **0** | 0 | 0 |
| Oil Cleanliness | | ISO 4406 (c) | >18/17/14 | **17/16/12** | 18/16/13 | 18/16/12 |

# FUEL REPORT

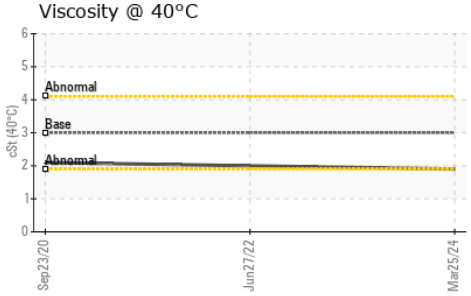
Particle Count



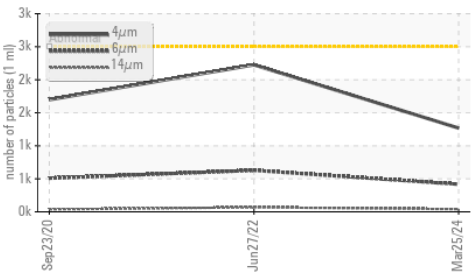

Water (KF)



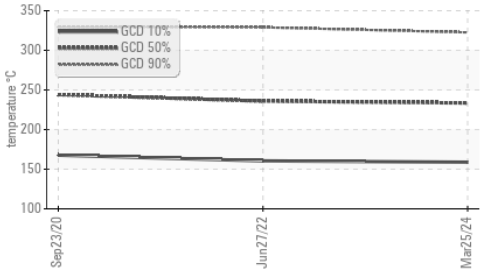

Viscosity @ 40°C



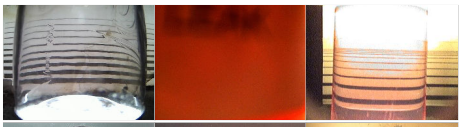
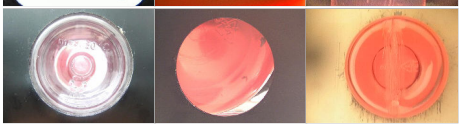

Particle Trend




Gas Chromatography (GCD)

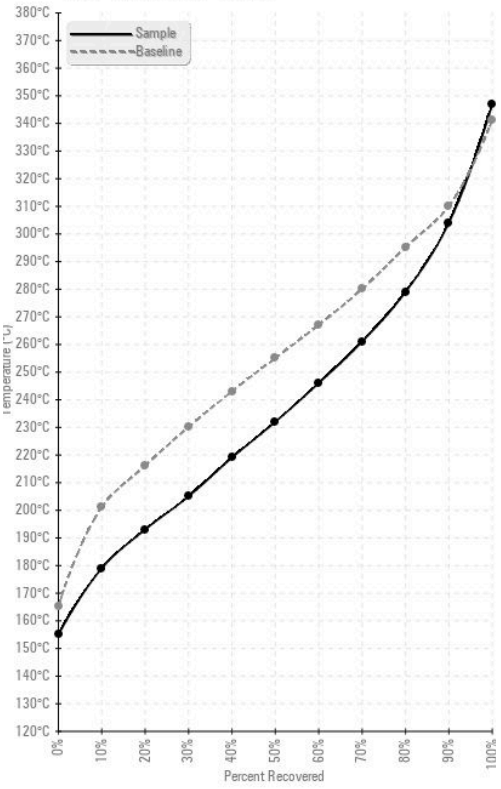



| HEAVY METALS | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| Aluminum | ppm | ASTM D5185(m) | <0.1 | **0** | 0 | 0 |
| Nickel | ppm | ASTM D5185(m) | <0.1 | **0** | 0 | 0 |
| Lead | ppm | ASTM D5185(m) | <0.1 | **<1** | ▲ 3 | <1 |
| Vanadium | ppm | ASTM D5185(m) | <0.1 | **0** | 0 | 0 |
| Iron | ppm | ASTM D5185(m) | <0.1 | **0** | <1 | <1 |
| Calcium | ppm | ASTM D5185(m) | <0.1 | **0** | <1 | 0 |
| Magnesium | ppm | ASTM D5185(m) | <0.1 | **0** | 0 | 0 |
| Phosphorus | ppm | ASTM D5185(m) | <0.1 | **0** | <1 | <1 |
| Zinc | ppm | ASTM D5185(m) | <0.1 | **<1** | <1 | <1 |

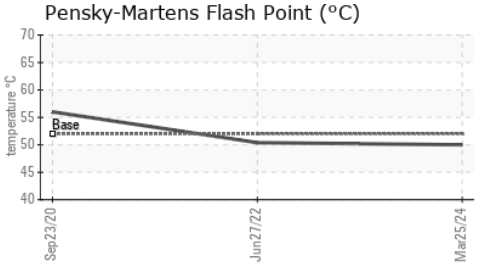
| SAMPLE IMAGES | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|
| Color | | |  | | |
| Bottom | | |  | | |

## GRAPHS

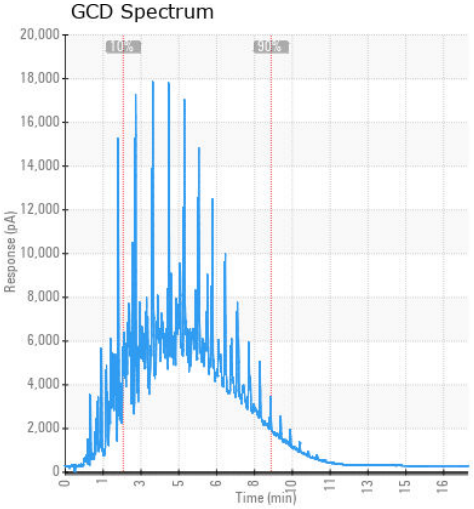
Fuel Distillation Curve




Pensky-Martens Flash Point (°C)




GCD Spectrum




CALA Testing Accreditation No. 1005078
ISO 17025:2017 Accredited Laboratory

**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
**Sample No.** : WA0020624 **Received** : 05 Apr 2024
**Lab Number** : 02627133 **Tested** : 10 Apr 2024
**Unique Number** : 5760265 **Diagnosed** : 10 Apr 2024 - Kevin Marson
**Test Package** : FUEL ( Additional Tests: CC Flash, PrtCount )

*To discuss this sample report, contact Customer Service at 1-800-268-2131.*
*Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab.*
*Validity of results and interpretation are based on the sample and information as supplied.*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